

ИЗБОРИ АИНС 2021
Одељење електротехничких наука
Инострани члан
Милица Стојановић

На седници Председништва АИНС одржаној 14.7.2021. године одређени смо за чланове Комисије за писање реферата за избор у звање инострани члан АИНС за кандидата Милицу Стојановић. У складу са Статутом и Правилником АИНС на основу увида у достављену документацију подносимо следећи

Реферат

1. Биографски подаци.

Милица Стојановић је рођена 1965. у Београду. Дипломирала је на Електротехничком факултету 1988. Магистратуру (1991.) и докторат (1993.) је одбранила на Northeastern University у Бостону, САД. После завршених постдипломских студија добила је награду за постдокторско истраживање у Институту за океанографију у Вудсхолу. Од 2000. до 2008. је радила у Massachusetts Institute of Technology (MIT) у звању редовног научника (Principal Scientist). 2008. се придружила Катедри за електронско и компјутерско инжењерство на Northeastern University, где и данас ради у звању редовног професора. Са Институтом за океанографију у Вудсхолу сарађује као гостујући истраживач.

2. Научни резултати

У научноистраживачкој делатности Милица Стојановић се бавила преносом информација под водом уз помоћ акустичних сигнала, статистичким моделовањем канала, алгоритмима за процесирање сигнала у присуству изобличења изазваних простирањем преко више путева и наглашеним Доплеровим ефектима као и мрежним комуникацијама у присуству великих кашњења. Објавила је велики број радова (73 у часописима, 8 у књигама, 11 у магазинима и 202 на конференцијама). Према SCOPUS-у број цитата њених радова је 12.332, а Хиршов фактор 54.

Пет најзначајнијих научних радова Милице Стојановић су:

1. **M.Stojanovic**, J.Catipovic and J.Proakis, "Phase Coherent Digital Communications for Underwater Acoustic Channels," IEEE Journal of Oceanic Engineering, vol.19, No.1, Jan. 1994, pp.100-111. Broj citata: 886. Impakt faktor: 2.9.
2. J.Heidemann, **M.Stojanovic** and M.Zorzi, "Underwater Sensor Networks: Applications, Advances, and Challenges," Philosophical Transactions of the Royal Society (A), Jan. 2012, pp. 158-175. Broj citata: 812. Impakt faktor: 6.14.
3. **M.Stojanovic** and J.Preisig, "Underwater Acoustic Communication Channels: Propagation Models and Statistical Characterization," IEEE Communications Magazine, Jan. 2009, pp.84-89. Broj citata: 1463. Impakt faktor: 11.05.
4. S.Yerramalli, **M.Stojanovic** and U.Mitra, "Partial FFT Demodulation: A Detection Method for Doppler Distorted OFDM Systems," IEEE Transactions on Signal Processing, vol.60, No.11, Nov. 2012, pp.5906-5918. Broj citata: 72. Impakt faktor: 5.01.
5. **M.Stojanovic**, "On the Relationship Between Capacity and Distance in an Underwater Acoustic Communication Channel," ACM Mobile Computing and Communications Review (MC2R), vol.11, Issue 4, Oct.2007, pp.34-43. Broj citata: 1182. Impakt faktor 4.12.

3. Инжењерски резултати

У инжењерском стручном раду Милица је на почетку каријере формулисала алгоритам за процесирање сигнала који је омогућио развој првог фазно кохерентног акустичког модема. Алгоритам је заснован на симултаном синхронизацији, еквализацији и просторном комбиновању сигнала. На њему почива модем произведен у Институту за океанографију у Вудсхолу, који данас представља де факто стандард за брзе подводне комуникације. Овај рад је такође представљао основу за почетак нове области подводних комуникација, која је укључена у конференцијске сесије и добила посебно поглавље у часопису IEEE Journal of Oceanic Engineering. Она је допринела и даљем развоју алгоритама за обраду комуникационих сигнала, увела ортогонални фреквенцијски мултиплекс (OFDM) у подводне комуникације, поставила темеље за подводне акустичке мреже засноване на целуларним принципима, као и за мрежне протоколе погодне за коришћење у условима великих кашњења који преовладавају у акустичним системима због спорог простирања звука. Из ових области има 5 патената.

Пет најважнијих инжењерских резултата Милице Стојановић су:

1. "Apparatus for Improved Underwater Data Telemetry Utilizing Phase Coherent Communications," J.Proakis, J.Catipovic and **M.Stojanovic**, U.S. Patent 5301167, Apr. 1994. Патент чини основу акустичког модема који је произведен у Институту за океанографију у Вудсхолу (WHOI) и комерцијализован.
2. "Method and Apparatus for Simultaneous Beamforming and Equalization," J.Proakis and **M.Stojanovic**, U.S. Patent 5844951, Dec. 1998. Метод је употребљен у WHOI модему.
3. "Method for Non-Uniform Doppler Compensation in Wideband OFDM Signals," **M.Stojanovic**, U.S. Patent 7844006, Nov. 2010 & "Apparatus, Systems and Methods for Enhanced Multi-carrier Based Underwater Acoustic Communications", S.Zhou, B.Li, **M.Stojanovic**, L.Freitag, P.Willet, U.S. Patent 7859944, Dec. 2012. Патенти описују комплементарне методе за компензацију фазних и фреквенцијских помака због Доплерових ефеката у широкопојасним акустичким сигнаlima.
4. Qarabaqi and **M.Stojanovic**, "Statistical Characterization and Computationally Efficient Modeling of a Class of Underwater Acoustic Channels," IEEE Journal of Oceanic Engineering, vol.38, No.4, Oct. 2013, pp.701-717. (Broj citata: 381). Рад садржи математички модел стохастичких промена у класи акустичких комуникационих канала, који је експериментално потврђен, и на основу кога је направљен компјутерски симулатор канала.
5. "Random Linear Network Coding for Time Division Duplexing," D.Lucani, **M.Stojanovic** and M.Medard, U.S. Patent 8279781, May 2013. Патент описује метод за успостављање поуздане бежичне везе на принципу кодовања пакета.

Сви резултати су рађени за USA Office of Naval Research (ONR) или National Science Foundation (NSF).

4. Наставна активност

У **наставној активности** је држала предавања на дипломским и постдипломским студијама на Northeastern University из бежичних комуникација, дигиталних комуникација, комуникационих мрежа, вероватноће и случајних процеса, детекције сигнала у шуму, статистичког закључивања, подводних комуникација (Универзитет у Падови), комуникационих мрежа у свемиру (MIT) и комуникационог инжењерства (MIT)

5. Организација научног рада

Поред интензивне наставне и научне делатности Милица Стојановић је била ментор 6 докторских и 32 магистарске тезе. Још 31 пут је била члан у докторским комисијама, од чега 21 пут изван матичног универзитета. Сарађује се већим бројем универзитета у САД (MIT, USC, UIUC и др.) и у свету (National Univ. Singapore, Univ. La Sapienza Roma, ENST Brest, France, и др.). Била је, или је још увек, едитор реномираних часописа: IEEE J. Oceanic Eng. (од 2008), IEEE Trans. Sig. Proc. (2009-13), IEEE Vehic. Tech. Trans. (2001-07), IEEE Sig. Proc. Magazine (од 2018). Од 2007. председава IEEE OES Tech. Committee Underwater Positioning, Navigation and Communication. За научни и наставни рад добила је низ признања: IEEE Fellow (2010), IEEE/OES Distinguished Technical Achievement Award (2015), IEEE WICE Outstanding Achievement Award (2019), IEEE/OES Distinguished Lecturer (2018).

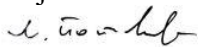
6. Сарадња са институцијама и/или појединцима у Србији

У сарадњи са колегама са Електротехничког факултета тренутно ради на организацији међународне конференције EUSIPCO 2022 у Београду као копредседавајући.

7. Закључак

Имајући у виду да је Милица Стојановић постигла изузетне научне и инжењерске резултате, Комисија са задовољством предлаже да Милица Стојановић буде изабрана за иностраног члана АИНС.

Комисија:



Миодраг Поповић, редовни члан АИНС



Бранка Јокановић, редовни члан АИНС



Предраг Петровић, редовни члан АИНС



Милица Стојановић је рођена 1965. у Београду, где је дипломирала на електротехничком факултету 1985. Магистратуру (1991) и докторат (1993) је одбранила у САД на Нортистерн Универзитету (Northeastern University) у Бостону. После завршених постдипломских студија, добила је награду за обављање пост-докторског истраживања (Postdoctoral Fellowship) у Институту за Океанографију у Вудсхолу (Woods Hole Oceanographic Institution, WHOI). Од 2000. до 2008. је радила у Масачусетс институту за технологију (Massachusetts Institute of Technology, MIT) у звању редовног научника (Principal Scientist). 2008. се придружила катедри за електронско и компјутерско инжињерство на Нортистерн универзитету где и данас ради у звању редовног професора. Са Океанографским институтом у Вудсхолу сарађује као редован истраживач (Guest Investigator).

Настава Предмети (дипломске и постдипломске студије, Нортистерн универзитет): Бежичне комуникације, Дигиталне комуникације, Комуникационе мреже, Вероватноћа и случајни процеси, Детекција сигнала у шуму, Комуникациони системи, Линеарни системи, Статистичко закључивање; Подводне комуникације (Универзитет у Падови), Комуникационе мреже у свемиру (MIT), Комуникационо инжињерство (MIT). Студенти: докторски (6), магистарски (32), пост-докторски (2); чланство у докторским комисијама (10 на матичној институцији, 21 изван).

Ужа област научног рада Пренос информација испод воде уз помоћ акустичних сигнала. Статистичко моделовање канала, алгоритми за процесирање сигнала у присуству изобличења изазваних простирањем преко више путања и наглашеним Доплеровим ефектима. Мрежне комуникације у присуству великих кашњења.

Инжењерска делатност На почетку каријере, извела је алгоритам за процесирање сигнала који је омогућио развој првог фазно кохерентног акустичког модема. Алгоритам је заснован на симултаном синхронизацији, еквализацији и просторном комбиновању сигнала. На њему почива модем произведен у Институту за Океанографију у Вудсхолу који данас представља де факто стандард за брзе подводне комуникације. Овај рад је такође представљао повод за почетак нове области подводних комуникација, која је укључена у конференцијске сесије и добила посебно поглавље у журналу IEEE Journal of Oceanic Engineering. Допринела је даљњем развоју алгоритама за обраду комуникационих сигнала, увела ортогонални фреквенцијски мултиплекс (OFDM) у подводне комуникације; поставила темеље за подводне акустичке мреже засноване на целуларним принципима, као и за мрежне протоколе погодне за коришћење у условима великих кашњења који преовлађују у акустичним системима због спорог простирања звука. Објавила је многе радове (73 у часописима, 8 у књигама, 11 у магазинима и 202 на конференцијама), са тренутним h-индексом 69 (<https://scholar.google.com/citations?user=37IzFAoAAAAJ&hl=en>). Има 5 патената.

Међународна сарадња Сарађује са универзитетима широм САД (нпр. MIT, USC, UIUC) и широм света, (нпр. National Univ. Singapore, Univ. LaSapienza Roma, ENST Brest, France).

Организационо ангажовање Едитор: IEEE J.Oceanic Eng. (од 2008), IEEE Trans. Sig.Proc. (2009-13), IEEE Vehic. Tech. Trans. (2001-07), IEEE Sig.Proc. Magazine (од 2018). Председа IEEE OES Tech. Committee Underwater Positioning, Navigation and Communication (од 2007).

Сарадња са институцијама и/или појединцима у Србији У сарадњи са колегама са ЕТФ-а, тренутно учествује у организовању конференције EUSIPCO 2022 у Београду, као ко-председавајући са Проф. Петром Ђурићем са Стонибрук универзитета у САД.

Награде IEEE Fellow (2010), IEEE/OES Distinguished Technical Achievement Award (2015), IEEE WICE Outstanding Achievement Award (2019), IEEE/OES Distinguished Lecturer (2018).

Породица и хоби Удата за Зорана Звонара са којим има троје деце. У слободно време воли да се скија, планинари, пише приче и песме, и прави јела од шумског воћа и биља.

Најбољих 5 научних доприноса

1. M.Stojanovic, J.Catipovic and J.Proakis, "Phase Coherent Digital Communications for Underwater Acoustic Channels," IEEE Journal of Oceanic Engineering, vol.19, No.1, Jan. 1994, pp.100-111.

Број цитата: 886. Импакт фактор: 2.9. Рад садржи први експерименталан доказ о могућности фазно-кохерентне детекције акустичких дигиталних сигнала под водом.

2. J.Heidemann, M.Stojanovic and M.Zorzi, "Underwater Sensor Networks: Applications, Advances, and Challenges," Philosophical Transactions of the Royal Society (A), Jan. 2012, pp. 158-175.812.

Број цитата: 812. Импакт фактор: 6.14. Рад поставља основе за развој подворних акустичких мрежа за пренос дигиталних информација.

3. M.Stojanovic and J.Preisig, "Underwater Acoustic Communication Channels: Propagation Models and Statistical Characterization," IEEE Communications Magazine, Jan. 2009, pp.84-89.

Број цитата: 1463. Импакт фактор: 11.05.

Рад представља увод у моделовање акустичких комуникационих канала.

4. S.Yerramalli, M.Stojanovic and U.Mitra, "Partial FFT Demodulation: A Detection Method for Doppler Distorted OFDM Systems," IEEE Transactions on Signal Processing, vol.60, No.11, Nov. 2012, pp.5906-5918.

Број цитата: 72. Импакт фактор: 5.01. У овом раду је први пут уведен метод за превазилажење стохастичких Доплерових изобличења у сигнаlima заснованим на ортогоналном фреквенцијском дуплексу.

5. M.Stojanovic, "On the Relationship Between Capacity and Distance in an Underwater Acoustic Communication Channel," ACM Mobile Computing and Communications Review (MC2R), vol.11, Issue 4, Oct.2007, pp.34-43.

Број цитата: 1182. Импакт фактор 4.12. Рад садржи прву теоријску анализу фундаменталног (Шеноновог) капацитета за подводне акустичке канале.

Најбољих 5 инжењерских доприноса

Сви наведени радови су извршени за USA Office of Naval Research (ONR) и/или USA National Science Foundation (NSF).

1. "Apparatus for Improved Underwater Data Telemetry Utilizing Phase Coherent Communications," J.Proakis, J.Catipovic and M.Stojanovic, U.S. Patent 5301167, Apr. 1994. Патент чини основу акустичког модема који је произведен у Институту за Океанографију у Вудсхолу (WHOI) и потом комерцијализован. Цитиран је 141 пут.

2. "Method and Apparatus for Simultaneous Beamforming and Equalization," J.Proakis and M.Stojanovic, U.S. Patent 5844951, Dec. 1998. Метод је употребљен у WHOI модему. Детаљан опис метода је доступан у чланку M.Stojanovic, J.Catipovic and J.Proakis, "Adaptive Multichannel Combining and Equalization for Underwater Acoustic Communications," Journal of the Acoustical Society of America, vol.94(3), Pt.1, Sept. 1993, pp.1621-1631 (Број цитата: 551. Импакт фактор: 1.9).

3. "Method for Non-Uniform Doppler Compensation in Wideband OFDM Signals," M.Stojanovic, U.S. Patent 7844006, Nov. 2010 & "Apparatus, Systems and Methods for Enhanced Multi-carrier Based Underwater Acoustic Communications," S.Zhou, B.Li, M.Stojanovic, L.Freitag, P.Willet, U.S. Patent 7859944, Dec. 2012. Патенти описују комплементарне методе за компензацију фазних и фреквенцијских помака изазваних Доплеровим ефектима у широкопојасним акустичким сигнаlima. Методи су успешно примењени у експериментима изведеним у Атлантику и Пацифику. Детаљан опис резултата је доступан у B.Li, S.Zhou, M.Stojanovic, L.Freitag and P.Willet, "Multicarrier Communications over Underwater Acoustic Channels with Nonuniform Doppler Shifts," IEEE Journal of Oceanic Engineering, vol.33, No.2, Apr. 2008 (Број цитата: 798).

4. Qarabaqi and M.Stojanovic, "Statistical Characterization and Computationally Efficient Modeling of a Class of Underwater Acoustic Channels," IEEE Journal of Oceanic Engineering, vol.38, No.4, Oct. 2013, pp.701-717. (Број цитата: 381). Рад садржи математички модел стохастичких промена у класи акустичких комуникационих канала. Модел је експериментално потврђен на сигнаlima снимљеним у различитим окружењима и на основу модела је направљен компјутерски симулатор канала који је преко Интернета доступан широкој публици.

5. "Random Linear Network Coding for Time Division Duplexing," D.Lucani, M.Stojanovic and M.Medard, U.S. Patent 8279781, May 2013. Патент описује метод за успостављање поуздане бежичне везе на принципу кодовања пакета. Тема је обрађена у неколико научних радова, укључујући D.Lucani, M.Stojanovic and M.Medard, Random Linear Network Coding for Time Division Duplexing: When to Stop Talking and Start Listening," IEEE Infocom 2009 (Број цитата: 134. Импакт фактор: 6.2).

ПОДСЕТНИК

Име и презиме, датум и место рођења, завршен факултет, место и датум:
Милица Стојановић, рођ. 11. маја 1965. у Београду. Електротехнички факултет у Београду, 1988.

Тема Докторског рада, ментор, датум и факултет:
"Coherent Digital Communications Over Rapidly Fading Channels with Applications to Underwater Acoustics"
Prof. John Proakis, Northeastern University, Boston, MA, USA, 1993.

Запослење: најдуже, садашње; за пензионере и датум пензионисања (институција и врста посла):
Професор, Northeastern University, Electrical and Computer Engineering Dept., од 2008.

Област научног и инжењерског рада и ORCID идентификатор: Бежичне подводне комуникације
ORCID 0000-0002-9127-9638, <https://scholar.google.com/citations?user=37IzFAoAAAAAJ&hl=en>

Редовни професор ___х___ Научни саветник _____ Дописни члан АИНС од _____ године.

1. Научно-истраживачки резултати (ПРИЛОЗИ 2 и 3 ПРАВИЛНИКА МИНИСТАРСТВА)

Они који конкуришу за редовне чланове уписују број до избора у дописног + број након избора (пример: 24+6)

M10	МОНОГРАФИЈЕ И МОНОГРАФСКЕ СТУДИЈЕ	ТИП	M11	M12	M13	M14					
		БРОЈ	3	5							
M20	РАДОВИ МЕЂУНАРОДНОГ ЗНАЧАЈА	ТИП	M21a	M21	M22	M23	M24	M28	M29		
		БРОЈ	60	13	3						
M30	МЕЂУНАРОДНИ СКУПОВИ	ТИП	M31	M32	M33	M34	M35	M36			
		БРОЈ	202								
M40	НАЦИОНАЛНЕ МОНОГРАФИЈЕ	ТИП	M41	M42	M44	M45	M48	M49			
		БРОЈ									
M50	ЧАСОПИСИ НАЦИОНАЛНИ	ТИП	M51	M52	M53	M54	M55				
		БРОЈ									
M60	НАЦИОНАЛНИ СКУПОВИ	ТИП	M61	M62	M63	M64	M66				
		БРОЈ									
M80	ТЕХНИЧКА РЕШЕЊА	ТИП	M81	M82	M83	M84	M85	M86	M87		
		БРОЈ									
M90	ПАТЕНТИ	ТИП	M91	M92	M93	M94	M95	M96	M97	M98	
		БРОЈ	5								
M100	ИЗВЕДЕНА ДЕЛА, НАГРАДЕ, СТУДИЈЕ, ИЗЛОЖБЕ	ТИП	M101	M102	M103	M104	M105	M106	M107	M108	
		БРОЈ									
		ТИП	M109	M110	M111	M112					
		БРОЈ									

2. Цитираност (одређује се према SCOPUS-y)

2.1 Укупан број цитата 22686 (Google Scholar) 12332 (SCOPUS)

2.2 Број хетероцитата n/a

2.3 Број цитираних радова на SCOPUS-y 259

2.4 Цитираност у књигама _n/a_, дисертацијама _n/a_ и значајним иностраним публикацијама _n/a_

2.5 Хиршов индекс (h-фактор) према броју хетероцитата 69 (Google Scholar) / 54 (scopus)

3. Документоване инжењерске реализације (техничко-технолошки пројекти примењени у пракси)
(потребе привреде подразумевају и инфраструктурне и јавне објекте)

Р.Б.	Активност	Главни	Извођачки	Технички	Остали
1.	Урађени значајни пројекти за потребе привреде				
2.	У потпуности изведени већи пројекти за потребе привреде (број пројеката је део од пројеката под 1.)				
3.	Број ревизија (рецензија) привредних пројеката		Број експертских оцена		
4.	Руковођење: Изградњом привредних објеката		Радом привредних објеката		
5.	Остало: (нпр. Извођење других пројеката, и др.)				

4. Остали показатељи успеха

1.	Награде међународне	11	4.	Рецензије ISI-SCI-IF радова	n/a
2.	Награде домаће		5.	Рецензије међународних пројеката	n/a
3.	Уређивачки одбори часописа	14	6.	Чланство у научним и стр. удруж.	IEEE, ASA

5. Доприноси развоју услова научно-истраживачког рада

- 5.1 Формирање: 1 Лабораторија _1_ 2 Истраживачке групе _1_
3 Нови истраживачки правци _1_ 4 Центара изврсности _1_
- 5.2 Менторство: Др _6 (Ph.D.) 32 (M.S.)__
- 5.3 Педагошки рад: 1 Број уџбеника ____ 2 Збирка задатака ____
3 Број курсева: 15 4 Основне студије 6 5 Мастер студије n/a 6 Др студије 9
- 5.4 Међународна сарадња: 1 Руковођење n/a 2 Учешће на пројектима n/a
3 Студијски боравак у иностранству дужи од 2 месеца ____
- 5.5 Одржавање 1 Председник програмског 2 3 Секретар програмског ____ 5 Члан програмског ~30
научних скупова: 2 /органizacionог одбора 2 4 /органizacionог одбора ____ 6 /органizacionог одбора ~10

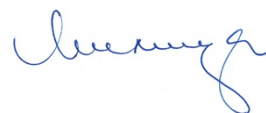
6. Организација научног рада

- 6.1 Руковођење: 33 пројекта (САД) Домаћим пројектима ____
- 6.2 Руковођење у Министарству науке: n/a 1 Министар ____ 2 Држ.сек. ____ 3 Помоћник ____ 4 Предс.МНО ____
- 6.3 Руковођење у Инжењерској комори: n/a 1 Председник ____ 2 Предс.Скупштине ____ 3 Предс.Комисије ____
- 6.4 Активности у Министарству науке: n/a 1 Матични одбори ____ 2 Вођење комисија ____
- 6.5 Руковођење научним институцијама: 1 Институту ____ 4 Лабораторија ____
2 Факултети ____ 5 Катедре ____
3 Одсеци, смерови ____
- 6.6 Руков. и актив. у другим друштвима: 1 Научним ____ 2 Стручним ~10 (IEEE едитор; члан /
председавајући организационих /научних комитета)

Датум

10. јуни, 2021.

Потпис кандидата



MILICA STOJANOVIC: PUBLICATIONS (Google Scholar h-index 70)

Journal Publications

1. M.Alimadadi, M.Stojanovic and P.Closas, "Delay-Tolerant Distributed Inference in Tracking Networks," *Sensors Journal*, August 2021, 21(17), 5747; <https://doi.org/10.3390/s21175747>.
2. L.Jing, M.Wang,Y.Lu, M.Stojanovic and R.Murch, "Differential Orthogonal Frequency Division Communication in Water Pipeline Channels," *Journal of the Acoustical Society of America (JASA) Express Letters*, July 2020, DOI: 10.1121/10.0001677 (<https://doi.org/10.1121/10.0001677>)
3. M.Alimadadi, M.Stojanovic and P.Closas, 'Object Tracking in Random-access Sensor Networks: A Large Scale Design', *IEEE Internet of Things Journal*, April 2020, ISSN: 2327-4662, DOI: 10.1109/JIOT.2020.2988411.
4. T.Duman and M.Stojanovic, "Information Rates of Energy Harvesting Communications with Intersymbol Interference," *IEEE Communication Letters*, October 2019, DOI:10.1109/LCOMM.2019.2945766.
5. A.Tadayon and M.Stojanovic, "Iterative Sparse Channel Estimation and Spatial Correlation Learning for Multichannel Acoustic OFDM Systems," *IEEE Journal of Oceanic Engineering*, August 2019, DOI:10.1109/JOE.2019.2932662.
6. A.Song, M.Stojanovic and M.Chitre, "Underwater Acoustic Communications: Where We Stand and What Is Next," *IEEE Journal of Oceanic Engineering*, vol.44, No.1, pp.1-6, January 2019, DOI:10.1109/JOE.2018.2883872.
7. W.Tomlinson, S.Banou, C.Yu, M.Stojanovic and K.Chowdhury, "Comprehensive Survey of Galvanic Coupling and Alternative Intra-body Communication Technologies," *IEEE Communications Surveys and Tutorials*, November 2018, DOI:10.1109/COMST.2018.2879643.
8. A.Tadayon and M.Stojanovic, " Low-Complexity Super-Resolution Frequency Offset Estimation for High Data Rate Acoustic OFDM Systems," *IEEE Journal of Oceanic Engineering*, September 2018, DOI:10.1109/JOE.2018.2869657.
9. R.Ahmed and M.Stojanovic, "Grouped Packet Coding: A Method for Reliable Communication over Fading Channels with Long Delays," *IEEE Journal of Oceanic Engineering*, July 2018, DOI: 10.1109/JOE.2018.2855498.
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11. P. Ponnaivaikko, S.K.Wilson, M.Stojanovic, J.Holliday and K.Yassin, "Delay-constrained Energy Optimization in High-latency Sensor Networks," *IEEE Sensors Journal*, May 2017, DOI: 10.1109/JSEN.2017.2703639.
12. A.Amar, G.Avrashi and M.Stojanovic, "Low Complexity Residual Doppler Shift Estimation For Underwater Acoustic Multicarrier Communication," *IEEE Transactions on Signal Processing*, vol. 65, No.8, April 2017, pp. 2063-2076, DOI: 10.1109/TSP.2016.2630039.
13. R.Ahmed and M.Stojanovic, "Joint Power and Rate Control for Packet Coding over Fading Channels," *IEEE Journal of Oceanic Engineering*, vol.42, No.3, September 2016, pp.697-710, DOI: 10.1109/JOE.2016.2593864.
14. N.Kumar, B.Tech, F.Fazel, M.Stojanovic and S.Narayanan, "Online rate adjustment for adaptive random access compressed sensing of time-varying fields," *EURASIP Journal on Advances in Signal Processing*, 2016, DOI: 10.1186/s13634-016-0348-9.
15. Y.Aval, S.K.Wilson and M.Stojanovic, "Capacity of Acoustic Channels and Practical Power-allocation Strategies," *IEEE Journal of Oceanic Engineering*, Special Issue on Underwater Communications, vol.40, No.4, October 2015, pp.785-795.

16. H.Ramezani, F.Fazel, M.Stojanovic and G.Leus, "Collision Tolerant and Collision Free Packet Scheduling for Underwater Acoustic Localization," *IEEE Transactions on Wireless Communications*, vol.14, No.5, May 2015, pp.2584-2015.
17. A.Zoksimovski, D.Sexton, M.Stojanovic and C.Rappaport, "Underwater Electromagnetic Communications Using Conduction-Channel Characterization," *invited paper*, Elsevier Journal of Physical Communication, Special issue on Advances in Underwater Communications and Networks, February 2015, DOI:10.1016/j.adhoc.2015.01.017.
18. Y.Aval and M.Stojanovic, "Differentially Coherent Multichannel Detection of Acoustic OFDM Signals," *IEEE Journal of Oceanic Engineering*, vol.40, No.2, April 2015, pp.251-268.
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20. P.Qarabaqi and M.Stojanovic, "Statistical Characterization and Computationally Efficient Modeling of a Class of Underwater Acoustic Channels," *IEEE Journal of Oceanic Engineering*, Special Issue on Underwater Communications, vol.38, No.4, October 2013, pp.701-717.
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23. F.Fazel, M.Fazel and M.Stojanovic, "Random Access Compressed Sensing over Fading and Noisy Communication Channels," *IEEE Transactions on Wireless Communications*, vol.12, No.5, May 2013, pp.2114-2125.
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29. S.Yerramalli, M.Stojanovic and U.Mitra, "Partial FFT Demodulation: A Detection Method for Doppler Distorted OFDM Systems," *IEEE Transactions on Signal Processing*, vol.60, No.11, November 2012, pp.5906-5918.
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Journal articles under submission

- A.Tadayon and M.Stojanovic, "Multi-carrier Signal Detection in the Presence of Extreme Doppler Distortion," IEEE Journal of Oceanic Engineering.
- Z.Li and M.Stojanovic, "Multi-carrier Acoustic Communications in Multi-user and Interference-limited Regimes," IEEE Journal of Oceanic Engineering.

Publications in Edited Books

1. B.Reed, J.Leighton, M.Stojanovic and F.Hover, "Multi-vehicle Dynamic Pursuit Using Underwater Acoustics," in *Robotics Research*, M.Inaba and P.Corke Eds., Springer, June 2016, pp.79-94.
2. M.Stojanovic and P.P.Beaudeau, "Acoustic Communication," in *Springer Handbook of Ocean Engineering*, M.R.Dhanak and N.I.Xiros Eds., *Part B: Autonomous Ocean Vehicles and Control*, T.Curtin Ed., Springer, 2016.
3. M.Stojanovic, "Spatio-Temporal Focusing for Elimination of Multipath Effects in High Rate Acoustic Communications," in *High Frequency Ocean Acoustics*, M.Porter, M.Siderius and W.Kupermann Eds., pp.65-73, American Institute of Physics (AIP), 2004.
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Magazine Articles

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Поштовани професоре Поповићу,

Захваљујем се Вама и одељењу електротехничких наука на позиву за кандидатуру за избор у иностране чланове Академије инжињерских наука Србије (АИНС).

Овим писмом потврђујем своју сагласност и жељу да конкуришем за чланство у АИНС.

С поштовањем,

Милица Стојановић



Milica Stojanovic was born in Belgrade, Serbia, in 1965, and graduated with a Dipl. Ing. degree from the University of Belgrade, School of Electrical Engineering, in 1988. She received the M.S. (1991) and Ph.D. (1993) degrees in electrical engineering from Northeastern University in Boston, MA, USA. Upon completing her doctoral studies, she was awarded a Postdoctoral Fellowship from the Woods Hole Oceanographic Institution (WHOI), in Woods Hole, MA, USA. Between 2000 and 2008 she was with the Massachusetts Institute of Technology (MIT), where she held the title of a Principal Scientist. In 2008 she joined Northeastern University, Department of Electrical and Computer Engineering, where she is currently a Full Professor. She remains affiliated with the Woods Hole Oceanographic Institution as a Guest Investigator.

Teaching

Courses (undergraduate and graduate): Wireless Communications, Digital Communications, Communication Networks, Probability and Random Processes, Detection of Signals in Noise, Communication Systems, Linear Systems, Statistical Inference; Underwater Communications (University of Padova), Space Communication Networks (MIT), Communication Systems Engineering (MIT).

Students: Ph.D. (6), M.S. (32), postdoctoral associates (2); Ph.D. committee memberships (10 internal, 21 external).

Research Expertise Transmission of information underwater / acoustic digital communications, statistical channel modeling, signal processing in the presence of multipath and Doppler distortions. Design of communication networks under high latency.

Engineering work As part of the early work, she designed a signal processing algorithm that enabled the development of the first phase-coherent acoustic modem. The algorithm incorporates joint synchronization, equalization, and spatial signal combining. It forms the basis of the modem implemented at the Woods Hole Oceanographic Institution, which remains a de facto standard for modern high-speed underwater communications. This work initiated a new research area of underwater communications, which was included into conference sessions and established as an entry in the IEEE Journal of Oceanic Engineering. She contributed to further development of communication signal processing algorithms, introduced orthogonal frequency division multiplexing (OFDM) into underwater communications, laid the foundations for underwater networks based on cellular principles, and designed networking protocols suitable for operation in the presence of long delays caused by the low speed of sound. She published extensively on these topics (73 journal articles, 8 publications in edited books, 11 magazine articles and 202 conference papers), with a current h-index of 69 (<https://scholar.google.com/citations?user=37IzFAoAAAAJ&hl=en>). She holds 5 patents.

International collaboration She collaborates with universities across USA (e.g., MIT, USC, UIUC) and across the world (e.g., National Univ. Singapore, La Sapienza Univ. Rome, ENST Brest, France).

Service to organizations Editor: IEEE J.Oceanic Eng. (since 2008), IEEE Trans. Sig.Proc. (2009-13), IEEE Vehic. Tech. Trans. (2001-07), IEEE Sig.Proc. Magazine (since 2018). Chair: IEEE OES Technology Committee for Underwater Positioning, Navigation and Communication (since 2007).

Collaboration with institutions and/or individuals in Serbia In collaboration with colleagues from the University of Belgrade's School of Electrical Engineering (ETF), she is currently engaged in organizing the EUSIPCO 2022 conference in Belgrade, which she will co-chair with Prof. Petar Djuric of the Stony Brook University in USA.

Awards IEEE Fellow (2010), IEEE/OES Distinguished Technical Achievement Award (2015), IEEE WICE Outstanding Achievement Award (2019), IEEE/OES Distinguished Lecturer (2018).

Family and hobbies Married to Zoran Zvonar with whom she has three children. She is an avid skier and also enjoys mountain hiking, poetry and story writing, foraging and cooking with wild plants.